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(21) International Application Number: PCT/US (22) International Filing Date: 3 July 1997 ((30) Priority Data: 60/021,420 9 July 1996 (09.07.96) 9617898.3 28 August 1996 (28.08.96) 60/029,351 31 October 1996 (31.10.96) (71) Applicant (for all designated States except US): M CO., INC. [US/US]; 126 East Lincoln Avenue, R: 07065 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): MITCHEL, [US/US]; 126 East Lincoln Avenue, Rahway, (US). TOBERT, Jonathan, A. [US/US]; 126 Ea Avenue, Rahway, NJ 07065 (US). (74) Common Representative: MERCK & CO., INC.; Lincoln Avenue, Rahway, NJ 07065 (US).	(03.07.9	CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KU, KK, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). & Published Without international search report and to be republished upon receipt of that report.

(54) Title: METHOD FOR TREATING HOMOZYGOUS FAMILIAL HYPERCHOL

(57) Abstract

Homozygous familial hypercholesterolemia can be treated in patients suffering with this condition by administering a therapeutically effective amount of simvastatin. Dosages above 40 mg/day, and more particularly at or above 80 mg/day, were found to effectively reduce the LDL cholesterol levels in these patients.

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TITLE OF THE INVENTION METHOD FOR TREATING HOMOZYGOUS FAMILIAL HYPERCHOLESTEROLEMIA

5 RELATED APPLICATIONS

This application is a continuing application and claims priority to U.S. provisional application number 60/021,420, filed July 9, 1996, and to U.S. provisional application number 60/029,351, filed October 31,1996.

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BACKGROUND OF THE INVENTION

Homozygous familial hypercholesterolemia (HFH) is a rare disorder characterized by the presence of two abnormal low density lipoprotein (LDL) receptor genes which results in the patient having dysfunctional LDL receptors. This results in severe hypercholesterolemia, particularly extreme elevations in LDL levels, and rapid development of coronary atherosclerosis and coronary heart disease in those who suffer with HFH. Most patients develop coronary disease in adolescence and usually do not survive beyond their teen-age years.

HMG-CoA reductase inhibitors such as compactin, lovastatin, simvastatin, pravastatin, etc., are believed to work by upregulating LDL receptor activity and increasing LDL removal from the blood. Since FH homozygotes do not have functional LDL

receptors, this class of drugs was generally believed to be ineffective in these patients. Previous experience with HMG-CoA reductase inhibitors in FH homozygote children bore this out. For example, in J. Thiery, et al., European Journal of Pediatrics, (1990) 149: 716-721, it is noted that compactin, at dosages as high as 200 mg per day, and lovastatin caused only marginal lowering of LDL cholesterol levels in HFH patients and therefore were not considered to be useful therapies for this condition.

The treatment options available to those suffering with HFH have been limited to liver transplantation or LDL aphaeresis therapy. LDL aphaeresis is a technique where plasma is removed from patients

and run over columns either with an antibody to apo B or reagents to precipitate LDL. It is usually performed once every two weeks in this population with about a 70% reduction in LDL cholesterol immediately after the procedure, with levels returning to baseline at one week post-treatment. Both treatment options are associated with considerable morbidity and are in limited supply.

More recently, a second-generation HMG-CoA reductase inhibitor, atorvastatin, has been shown to be useful for treating HFH.

Contrary to what was previously believed due to the nature of HFH and the mechanism of action understood to be associated with HMG-CoA reductase inhibitors as well as the available published studies in this field, it has been discovered that simvastatin (marketed in the U.S. under the trademark ZOCOR®) in doses above 40 mg per day can be used to treat patients suffering with HFH.

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SUMMARY OF THE INVENTION

The main object of the instant invention is to provide a method for treating homozygous familial hypercholesterolemia comprising administering a therapeutically effective amount of simvastatin to a person in need of such treatment. A person in need of such treatment is one who has homozygous familial hypercholesterolemia. Additional objects will be evident from the following detailed description.

25 DETAILED DESCRIPTION OF THE INVENTION

It has been found that simvastatin in daily dosages above 40 mg are useful for the treatment of HFH. Preferably, the daily dosage is at least 80 mg, and more preferably, at least 160 mg. The compound may be administered in a single daily dose, or divided doses, for example two, three or four times daily. Simvastatin may also be administered in a sustained release formulation, for example employing the formulation described in U.S.Patent No. 5,366,738. Sustained release and daily divided dose administration is preferred.

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The following study results demonstrate the usefulness of simvastatin in the treatment of HFH.

I. Study Design

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<u>Design</u>: double blinded, randomized, parallel, dose-escalation, controlled, 18 week study

Patients: 12 patients with well-characterized HFH

Treatment: After a 4 week placebo diet run in period, the 12 patients were randomized to simvastatin (S) 80 mg/day (group 1, n=8) or 40 mg/day (group 2, n=4). After 9 weeks, the dose in group 1 was increased to 160 mg/day while the dose in group 2 was kept at 40 mg/day and treatment continued for an additional 9 weeks. Simvastatin was administered orally. The simvastatin treatment information is summarized in the table, below.

	Period 1 (9 weeks)	Period 2 (9 weeks)
Group 1 (n=8):	80 mg/day in 3 divided	160 mg/day in 3 divided
•	doses	doses
Group 2 (n=4):	40 mg/day once a day	40 mg/day in 3 divided
•		doses

Endpoint: Change in low density lipoprotein cholesterol

II. Study Results

The results of the study are as follows. For T-C, LDL-C and HDL-C, mean baseline and mean % change from baseline are shown; for TRIG, median baseline and median % change from baseline are shown:

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		<u>GRO</u> (n=	<u>UP 1</u> =8)	2	GROUP 2 (n=4)	
	BL	80	160	BL	40	40
	(mg/dl)	mg/day	mg/day	(mg/dl)	mg/day	mg/day
		tid dosing	tid dosing		<u>hs</u>	tid dosing
		% change	% change		% change	% change
T-C	627	-23	-29	562	-12	-13
LDL-C	570	-25	-31	519	-14	-15
TRIG	136	-9	-15	72	7	-11
HDL-C	32	12	6	28	11	17

BL = baseline

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 $5 ext{ T-C} = total cholesterol$

LDL-C = low density lipoprotein cholesterol

TRIG = triglyceride level

HDL-C = high density lipoprotein cholesterol

All 12 patients completed the trial and there were no serious or unexpected adverse events. No patients sustained significant hepatic transaminase or creatine kinase elevations.

As can be seen from the above study results, simvastatin at therapeutically effective doses of 80 mg/day and higher is effective in lowering LDL-C in patients suffering with homozygous familial hypercholesterolemia.

As such, simvastatin may be administered as monotherapy to a patient suffering with HFH, or it may be administered in combination with other therapies which are suitable for the treatment of HFH. For example, simvastatin may be co-adminstered with one or more additional drugs which are effective in lowering LDL cholesterol such as HMG-CoA synthase inhibitors; squalene epoxidase inhibitors; squalene synthase inhibitors (also known as squalene synthase inhibitors), acyl-coenzyme A: cholesterol acyltransferase (ACAT)

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inhibitors; probucol; niacin; fibrates such as clofibrate, fenofibrate, and gemfibrizol; cholesterol absorption inhibitors; and bile acid sequestrants. Agents such as aspirin and beta-blockers may also be co-administered with simvastatin. Simvastatin may also be administered in conjunction with therapies such as LDL aphaeresis.

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While the invention has been described and illustrated with reference to certain particular embodiments thereof, those skilled in the art will appreciate that various changes, modifications and substitutions can be made therein without departing from the spirit and scope of the invention. For example, effective dosages 10 other than the particular dosages as set forth herein above may be applicable as a consequence of variations in the responsiveness of the mammal being treated. Likewise, the specific pharmacological responses observed may vary depending upon the particular 15 pharmaceutical carriers employed, as well as the type of formulation and mode of administration employed, and such expected variations or differences in the results are contemplated in accordance with the objects and practices of the present invention. It is intended, therefore, that the invention be defined by the scope of the claims 20 which follow and that such claims be interpreted as broadly as is reasonable.

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WHAT IS CLAIMED IS:

- 1. A method of treating homozygous familial hypercholesterolemia comprising administering a therapeutically effective amount of simvastatin to a person in need of such treatment.
 - 2. The method of claim 1 wherein the daily dosage of simvastatin is more than 40 mg.
- 10 3. The method of claim 2 wherein the daily dosage of simvastatin is at least 80 mg.
 - 4. The method of claim 3 wherein the daily dosage of simvastatin is 80 mg.
 - 5. The method of claim 2 wherein the daily dosage of simvastatin is at least 160 mg.
- 6. The method of claim 5 wherein the daily dosage of simvastatin is 160 mg.
 - 7. The method of claim 1 wherein the simvastatin is administered in a single daily dose.
- 25 8. The method of claim 1 wherein the simvastatin is administered in divided daily doses.
 - 9. The method of claim 1 wherein the simvastatin is administered in a controlled time-release formulation.

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Homozygous familial hypercholesterolemia can be treated in patients suffering with this condition by administering a therapeutically effective amount of simvastatin. Dosages above 40 mg/day, and more particularly at or above 80 mg/day, were found to effectively reduce the LDL cholesterol levels in these patients.

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INTERNATIONAL SEARCH REPORT

International application No. PCT/US97/11792

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	LDS SEARCHED		
Minimum	documentation searched (classification system followe	d by classification symbols)	
U.S. :			
Documents	tion searched other than minimum documentation to the	e extent that such documents are included	in the fields searched
i	data base consulted during the international search (na	me of data base and, where practicable	, search torms used)
C. DOC	CUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap-	propriete, of the relevant passages	Relevant to claim No.
X	Randomised trial of cholesterol lower coronary heart disease: the Scandinavia (4S). Lancet. November 1994, Vol. (Abstract).	n Simvastatin Survival Study	1-9
A	US, 5,393,893 A (KUBELA et al.) 2 document.	8 February 1995, see entire	1-9
A	US, 4,997,849 A (PETUCH et al.) document.	05 March 1991, see entire	1-9
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Furth	er documents are listed in the continuation of Box C.	See patent family annex.	
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Basic Patent (No, Kind, Date): GB 9617898 A0 19961009 <No. of Patents: 007> Patent Family:

Patent No	Kind	Date	Applic No K	ind Date		
AU 9736672	A1	19980202	AU, 9736672	Α	19970703	
AU 9742289	Al	19980202	AU 9742289	Α	19970703	
AU 9743261	A1	19980202	AU 9743261	Α	19970703	
GB 9617898	A0	19961009	GB 9617898	Α	19960828	(BASIC)
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WO 9801100	A2	19980115	WO 97US117	92 A	19970703	
WO 9801119	A2	19980115	WO 97US108	67 A	19970703	

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GB 9617898 A 19960828

US 21420 P 19960709 US 29351 P 19961031

WO 97US12426 W 19970703 WO 97US11792 W 19970703

WO 97US10867 W 19970703

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PATENT FAMILY:
AUSTRALIA (AU)
  Patent (No, Kind, Date): AU 9736672 A1 19980202
   THERAPY FOR COMBINED HYPERLIPIDEMIA (English)
   Patent Assignee: MERCK & CO INC
   Author (Inventor): MITCHEL YALE B; MELINO MICHAEL R
   Priority (No, Kind, Date): GB 9617898 A
                                                19960828; US 21420 P
     19960709; US 29351 P 19961031; WO 97US12426 W 19970703
   Applic (No, Kind, Date): AU 9736672 A 19970703
   IPC: * A61K-009/20
   CA Abstract No: * 128(09)097715J; 128(09)097716K; 128(11)132435S
   Derwent WPI Acc No: * C 98-110203; C 98-110207; C 98-145191
   Language of Document: English
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   Patent Assignee: MERCK & CO INC
   Author (Inventor): MITCHEL YALE B; TOBERT JONATHAN A
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    Patent Assignee: MERCK & CO INC
    Author (Inventor): MITCHEL YALE B; TOBERT JONATHAN A
    Priority (No, Kind, Date): GB 9617898 A 19960828; US 21420 P
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    Applic (No, Kind, Date): AU 9743261 A 19970703
    IPC: * A61K-031/00
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GREAT BRITAIN (GB)
  Patent (No, Kind, Date): GB 9617898 A0 19961009
    METHOD FOR TREATING HOMOZYGOUS FAMILIAL HYPERCHOLESTEROLEMIA (English)
    Patent Assignee: MERCK & CO INC
    Priority (No, Kind, Date): GB 9617898 A 19960828
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    Language of Document: English
WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)
  Patent (No, Kind, Date): WO 9801116 A1 19980115
    THERAPY FOR COMBINED HYPERLIPIDEMIA (English)
    Patent Assignee: MERCK & CO INC (US); MITCHEL YALE B (US); MELINO
      MICHAEL R (US)
    Author (Inventor): MITCHEL YALE B (US); MELINO MICHAEL R (US)
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    98-110207
 Language of Document: English
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 METHOD FOR TREATING HOMOZYGOUS FAMILIAL HYPERCHOLESTEROLEMIA (English)
 Patent Assignee:
                     MERCK & CO INC (US); MITCHEL YALE B (US); TOBERT
   ·JONATHAN A (US)
 Author (Inventor): MITCHEL YALE B (US); TOBERT JONATHAN A (US)
                                                19960828; US 21420 P
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 Designated States: (National) AL; AM; AU; AZ; BA; BB; BG; BR; BY; CA;
    CN; CU; CZ; EE; GE; HU; IL; IS; JP; KG; KR; KZ; LC; LK; LR; LT; LV;
    MD; MG; MK; MN; MX; NO; NZ; PL; RO; RU; SG; SI; SK; SL; TJ; TM; TR;
    TT; UA; US; UZ; VN; YU; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM (Regional) GH; KE; LS; MW; SD; SZ; UG; ZW; AT; BE; CH; DE; DK; ES; FI
    ; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA;
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 PHARMACEUTICAL COMPOSITIONS (English)
 Patent Assignee:
                     MERCK & CO INC (US); MITCHEL YALE-B (US); TOBERT
    JONATHAN A (US)
 Author (Inventor): MITCHEL YALE B (US); TOBERT JONATHAN A (US)
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                                                19960828; US 21420 P
    19960709; US 29351 P
                           19961031
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WO 9801100	P	
		US 21420 P 19960709
WO 9801100	P	19960828 WO AA PRIORITY (PATENT)
		GB 9617898 A 19960828
WO 9801100	P	19961031 WO AA PRIORITY CLAIMED
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WO 9801100	P	19970703 WO AE APPLICATION DATA (APPL.
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		WO 97US11792 A 19970703
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WO 9801116	P	19960709 WO AA PRIORITY CLAIMED
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